ENGINEERING CHANGE NOTICE

Page 1 of 21. ECN **654045**Proj.
ECN

2. ECN Category (mark one) Supplemental ☐ Direct Revision ☒ Change ECN ☐ Temporary ☐ Standby ☐ Supersedure ☐ Cancel/Void ☐	3. Originator's Name, Organization, MSIN, and Telephone No. T Nuxall, SNF CVD, R3-86, 372-3739	4. USQ Required? ☐ Yes ☒ No	5. Date 8/27/99
	6. Project Title/No./Work Order No. Spent Nuclear Fuel Cold Vacuum Drying W-441	7. Bldg./Sys./Fac. No. CVDF	8. Approval Designator SQ
12a. Modification Work ☐ Yes (fill out Blk. 12b) ☒ No (NA Blks. 12b, 12c, 12d)	12b. Work Package No. N/A	12c. Modification Work Complete N/A <hr/> Design Authority/Cog. Engineer Signature & Date	12d. Restored to Original Condition (Temp. or Standby ECN only) N/A <hr/> Design Authority/Cog. Engineer Signature & Date
13a. Description of Change Added supplier for Item 33, and corrected supplier for Items 147 and 148.		13b. Design Baseline Document? ☐ Yes ☒ No	
14a. Justification (mark one) Criteria Change ☒ Design Improvement ☐ Environmental ☐ Facility Deactivation ☐ As-Found ☐ Facilitate Const ☐ Const. Error/Omission ☐ Design Error/Omission ☐			
14b. Justification Details Request for Information H0-029, Field Change Notice P4-032 and Request for Information H0-084.			
15. Distribution (include name, MSIN, and no. of copies) See Distribution		<div style="border: 1px solid black; padding: 5px;"> RELEASE STAMP <div style="display: flex; justify-content: space-between;"> <div> DATE: STA: <u>A</u> </div> <div style="text-align: center;"> </div> <div> ID: <u>2</u> </div> </div> <div style="text-align: center; font-weight: bold; font-size: 1.2em;">AUG 30 1999</div> </div>	

A-7900-013-2 (05/96) GEF095

A-7900-013-3 (05/96) GEF096

PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12

Carl Van Katwijk
Numatec Hanford, Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-96RL13200

EDT/ECN: 654045 UC: 620
Org Code: 2G300 Charge Code: 105559/A000
B&R Code: 39EW40400 Total Pages: ~~22~~ 23
8-30-99

Key Words: W-441, Cold Vacuum Drying Facility (CVDF) Parts for Process Hood
Assembly PV-HOOD-1*12

Abstract: W-441, Cold Vacuum Drying Facility (CVDF) Parts for Process Hood
Assembly PV-HOOD-1*12

TRADEMARK DISCLAIMER. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors.

Printed in the United States of America. To obtain copies of this document, contact: Document Control Services, P.O. Box 950, Mailstop H6-08, Richland WA 99352, Phone (509) 372-2420, Fax (509) 376-4989.

Release Approval Date: 8/30/99

Approved for Public Release

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. NA	CGI No. CGI-SNF-D-30-3-P4-048	Page 1 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

Section 1 Part Information			
Item No.: N/A		Manufacturer:	Supplier:
Mfg. Part/Model No.:		Supplier's P/N:	
Part Description:			
End Use Description:			
Section 2a Component Information			
Equipment No.: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12	Specification No.: W-441-P4, Rev. 2; Dwg.: H-1-82364 with DCNs W-441-HO-410, 411, 413, and 416	Manufacturer: Various	Past P.O. No.: N/A
Manufacturer's Part/Model No.: Item Numbers per referenced Dwg.	Equipment Supplier (if different from manufacturer):		Equip. Supplier's Part No.:
H-1-82364 Item 33; - Wire Screen, 1/4" Mesh X 0.047 inch Wire, 65.9% Open	Item 33 - McMaster-Carr		Item 33 - 9266T2
H-1-82364, Item 143; - Hose: 9 inch I.D. X 20 feet, Neoprene Coated Fiber Glass	Item 143- McMaster-Carr		Item 143 -55125K31
H-1-82364, Item 144; - Duct Hose Clamp 9 inch I.D. X 1/2 inch width	Item 144 - McMaster-Carr		Item 144 - 45955K75
H-1-82364, Item 146; - Flex Hose, 13/32 inch I. D., VCO female swivel SST, both ends, teflon hose, 72 inch length	Item 146 - Swagelok		Item 146 - SS-TH8-VF8-VF8-72
H-1-82364, Item 147; - Flex Hose, 1 1/2 inch I. D., Male pipe NPT end, SST, both ends, teflon hose, Anti Kink Cover, 168 inch length	Item 147 - Either Meacon or Flexible Components		Item 147- 24-TLCT-03-03-S6(A)-168.

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. NA	CGI No. CGI-SNF-D-30-3-P4-048	Page 2 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

H-1-82364, Item 148; Flex Hose, 1 inch I. D., Weld end 1 inch pipe, both ends, SST, teflon, Anti Kink Cover, 168 inch length	Item 148 – Either Meacon or Flexible Components	Item 148 - 16-TLCT- 41-41-S6A-168
H-1-82364, Item 168; Swivel Hoist Ring, 3/4 inch, 5000 lb. capacity	Item 168 – Crosby	Item 168 - 1016935

Component Description: **These items are sub-assembly parts of the Process Hood, PV-HOOD-1*12. The parts are shown on W-441-P4, Rev. 2, Dwg. H-1-82364. The process hood is classed safety significant and has a safety function of radiation protection and confinement. These parts are procured from a non-qualified supplier and are being dedicated as Commercial Grade Items.**

Section 2b Commercial Availability of the Item

1. Is the Item available from a catalogue of a qualified NQA1 supplier? (coordinate with project CGI interface Engineer or BTR)

☐ YES (go to #2 below)

☒ NO (go to procedure step 6.3.2, proceed to dedicate Item.)

If not available from a qualified NQA1 supplier, is it available from an ISO 9000 supplier? (coordinate with project CGI interface Engineer or BTR)

☐ YES (go to #2 below, then go to procedure step 6.3.2, proceed to dedicate Item)

☒ NO (go to procedure step 6.3.2, proceed to dedicate Item.)

2. List of Candidate qualified suppliers or ISO 9000 suppliers

company name & type

contact name

phone

N/A

3. Recommended Procurement Strategy (coordinate with project CGI interface Engineer or BTR):

NA

Section 2c CGI Determination

1. Question #1: Is the Item subject to design or specification requirements that are unique to nuclear facilities or activities?

☐ YES (the Item is not commercial grade)

☒ NO (continue)

2. Question #2: Is the Item used in applications other than nuclear facilities or activities?

☐ NO (the item is not commercial grade)

☒ YES (continue)

3. Question #3: Is the Item ordered from manufacturer/supplier on the basis of specifications set forth in the published product information (e.g. manufacturer's catalog)?

☐ NO (the Item is not commercial grade)

☒ YES (continue)

☒ **All three criteria have been satisfied. The Item meets the definition of commercial grade.**

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. NA	CGI No. CGI-SNF-D-30-3-P4-048	Page 3 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1 * 12		

Section 2d Reason for Dedication	
The above described Item is being Dedicated for use in the application cited for the following reason(s):	
☐	Item is being purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Class application.
☒	Item is being purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Significant application.
☐	Item was purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Class application.
☐	Item was purchased from a non ESL manufacturer supplier as commercial grade to be used in a Safety Significant application.
☐	Other ('like-for-like', similar, substitution, replacement evaluation)
Section 3 Failure Effects Evaluation	
A. Part/Component Safety Function:	
1. The safety function of the process hood is radiation protection and confinement.	
2. The process hood is classified as Seismic Condition 3/1, Provide Seismic protection for SC, SS SSCs.	
B. Part/Component Functional Mode:	
Safety Function #1:	
☐	Active – Mechanical or Electrical change of state is required to occur for the component to perform its safety function..
☒	Passive – Change of state is not required for the component to perform its safety function
Safety Function #2:	
☐	Active – Mechanical or Electrical change of state is required to occur for the component to perform its safety function.
☒	Passive – Change of state is not required for the component to perform its safety function
Safety Function #3:	
☐	Active – Mechanical or Electrical change of state is required to occur for the component to perform its safety function.
☐	Passive – Change of state is not required for the component to perform its safety function
C. Host Component Safety Function (if applicable): N/A	
1.	
D. Failure Mode(s) and the effects on component or system safety function (see Worksheet 1):	
1. Item 33 - Fracture/failure of the wire screen may allow foreign material to enter the hood and possibly obstruct the flow passages. Obstruction of the flow passages may impair the confinement function.	
2. Items 143, 144, 146, 147, and 148 - Failure of the flex hoses and clamp may impair the process hood piping boundary and impair the confinement function.	
3. Item 168 - A failure of the swivel hoist ring may result in drop of the process hood. Damage to the hood may impair the confinement function if hood were placed in service without proper repair.	

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. NA	CGI No. CGI-SNF-D-30-3-P4-048	Page 4 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

Section 4 Environmental & Natural Phenomena Hazard Design				
Environmental Qualification Required:		If yes: Environmental Qualification Requirements		
Yes ☐		Limiting Environmental Conditions:		
No ☒		Required Safety Functions:		
Environmental Condition - None		Qualification Period:		
Natural Phenomena Hazard (NPH) Design Required:		If yes: NPH Design Requirements		
Yes ☐		Performance Category: Process Hood is PC-3		
No ☒		NPH Design Req'ts.: Process Hood is Seismic Condition 3/1		
HNF-SD-SNF-SEL-002, Rev. 6		Required Safety Functions: The functions for the Process Hood are radiation protection and confinement. Provide Seismic 3/1 protection for SC, SS SSCs.		
HNF-PRO-97, Rev. 0				
Section 5 Component Functional Classification				
☐ Safety Class (SC)		☐ General Service (GS)		☒ Safety Significant (SS)
If part/component classification is different from host component/system, document basis. N/A				
Section 6 (Reserved)				
Section 7 (Reserved)				
Section 8 References (for Functional Classification)				
National Codes/Standards: ASHRAE and ACGIH	Safety Analysis Report (SAR): HNF-SD-SNF-SAR-002, Rev. 4A	Drawings: HNF-SD-SNF-SEL-002, Rev. 6 Dwg.: H-1-82364 with DCNs W-441-HO- 410, 411, 413, and 416		
Vendor Manual/Manufacturer/Supplier Information: N/A				
Other: N/A				
Section 9 Critical Characteristics				
Critical Characteristics Verification Document: Vendors Manuals; HNF-SD-SNF-SEL-002, Rev. 6	Acceptance Criteria/Tolerances	Acceptance Method	ID	Function
1. Item Identification Critical Characteristics (necessary for reasonable assurance that the Item delivered is the Item specified)				
Item 33 - Wire Screen				
Supplier	McMaster-Carr	1, IN	X	
Part Number	9266T2	1, IN	X	
Mesh	Nominal 1/4 inch	1, IN	X	
Wire Diameter	Nominal 0.047 inch	1, IN	X	

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. NA	CGI No. CGI-SNF-D-30-3-P4-048	Page 5 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

Item 143 - Hose				
Supplier	McMaster-Carr	1, IN	X	
Part Number	55125K31	1, IN	X	
I. D.	9 inch	1, IN	X	
Length	Nominal 20 feet	1, IN	X	
Item 144 Duct Hose Clamp				
Supplier	McMaster-Carr	1, IN	X	
Part Number	45955K75	1, IN	X	
I. D.	Nominal 9 inch	1, IN	X	
Width	Nominal 1/2 inch	1, IN	X	
Item 146 - Flex Hose				
Manufacturer	Swagelok	1, IN	X	
Part Number	SS-TH8-VF8-VF8-72	1, IN	X	
I. D.	13/32 inch	1, IN	X	
Connection	VCO female swivel, SST, 1/2 inch, both ends	1, IN	X	
Length	Nominal 72 inch	1, IN	X	
Item 147- Flex Hose				
Manufacturer	Either Meacon or Flexible Components	1, IN	X	
Part Number	24-TLCT-03-03-S6(A)-168	1, IN	X	
I. D.	1 1/2 inch	1, IN	X	
Connection	1 1/2 inch Male pipe NPT, SST, both ends	1, IN	X	
Length	Nominal 168 inch	1, IN	X	
Item 148- Flex Hose				
Manufacturer	Either Meacon or Flexible Components	1, IN	X	
Part Number	16-TLCT-41-41-S6A-168	1, IN	X	
I. D.	1 inch	1, IN	X	
Connection	1 inch, butt weld end, SST, both ends	1, IN	X	
Length	Nominal 168 inch	1, IN	X	
Item 168 - Swivel Hoist Ring				
Manufacturer	Crosby	1, IN	X	
Part Number	1016935	1, IN	X	
Size, Ring Thickness	Nominal 3/4 inch diameter	1, IN	X	
Size, Ring Opening	Nominal 1.76 inch diameter	1, IN	X	

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. <u>NA</u>	CGI No. <u>CGI-SNF-D-30-3-P4-048</u>	Page 6 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

"C" Dimension, Height	Nominal 4.82 inch	1, IN	X	
Capacity	5000 lbs.	1, IN	X	
2. Physical Critical Characteristics (for reasonable assurance that the Item delivered is the Item specified)				
Item 33 - Wire Screen Material	Stainless Steel (Note 2)	1, IN 1, T	X	
Item 143 - Hose Material	Neoprene Coated Fiberglass (Note 2)	1, IN 1, T	X	
3 Performance Critical Characteristics (for reasonable assurance that the Item will perform its intended safety function(s))				
All Items				
Environmental	N/A			
Seismic Condition 3/1	Note 1	N/A		
4. Notes and Legend:		Acceptance Method:		
1. Seismic 3/1 Event is not a critical characteristic for dedication of the component.		1. Special Test and Inspection 1, IN for Inspection 1,T for Test		
2. Material verification acceptance method may be by either inspection or test.		2. Commercial Grade Survey 3. Source Verification 4. Vendor/Item History		
Section 10 Initial Review and Approval				
Approvals: <i>[Signature]</i> 8/30/99 Designated Engineer: <i>[Signature]</i> 8/27/99 Design Authority: <i>[Signature]</i> QA Engineer: <i>[Signature]</i> 8/30/99				

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. <u>NA</u>	CGI No. <u>CGI-SNF-D-30-3-P4-048</u>	Page 7 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

WORKSHEET 1 DETERMINATION OF FAILURE MECHANISMS/MODES		
Section 1		
Typical Failure Mechanisms	Definition	Applicable to Component under Evaluation
Fracture	Separation of a solid accompanied by little or no macroscopic plastic deformation.	Yes ☒ No ☐ ; If Yes, indicate failure Mode: <u>Failure of hoist ring may result in hood drop and subsequent damage.</u>
Corrosion	The gradual deterioration of a material due to chemical or electrochemical reactions, such as oxidation, between the material and its environment.	Yes ☐ No ☒ ; If Yes, indicate failure Mode: _____
Erosion	Destruction of materials by the abrasive action of moving fluids, usually accelerated by the presence of solid particles carried with the fluid.	Yes ☐ No ☒ ; If Yes, indicate failure Mode: _____
Open Circuit	An electrical circuit that is unintentionally broken so that there is no complete path for current flow.	Yes ☐ No ☒ ; If Yes, indicate failure Mode: _____
Short Circuit	An abnormal connection by which an electrical current is connected to ground, or to some conducting body, resulting in excessive current flow.	Yes ☐ No ☒ ; If Yes, indicate failure Mode: _____
Blockage	Clogging of a filtering medium resulting in the inability to perform its purification function or blockage of flow.	Yes ☐ No ☒ ; If Yes, indicate failure Mode: _____
Seizure	Binding of a normally moving item through excessive pressure, temperature, friction, jamming.	Yes ☐ No ☒ ; If Yes, indicate failure Mode: _____
Unacceptable Vibration	Mechanical oscillations produced are beyond the defined permissible limits due to unbalancing, poor support, or rotation at critical speeds.	Yes ☐ No ☒ ; If Yes, indicate failure Mode: _____
Loss of Properties	A loss of mechanical and physical properties of a material due to exposure to high temperatures, radiation exposure.	Yes ☐ No ☒ ; If Yes, indicate failure Mode: _____
Excess Strain	Under the action of excessive external forces the material of the part has been deformed or distorted.	Yes ☐ No ☒ ; If Yes, indicate failure Mode: _____
Mechanical Creep	From prolonged exposure to high temperature and stress, the object will show a slow change in its physical (shape and dimension) and mechanical characteristics.	Yes ☐ No ☒ ; If Yes, indicate failure Mode: _____
Ductile Fracture	Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation.	Yes ☐ No ☒ ; If Yes, indicate failure Mode: _____
Section 2 Additional Failure Modes Applicable to the Component Under Evaluation		
1. _____		
2. _____		

Commercial Grade Item Upgrade Dedication Form

SNF-4626, Rev. 1

ECN No. **NA**

CGI No. **CGI-SNF-D-30-3-P4-048**

Page 8 of 21

Title: **PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12**

CHECKLIST 1

ACCEPTANCE METHOD 1

SPECIAL TEST/INSPECTION VERIFICATION

SECTION 1	
Item Description: Various - See Section 2a. System #: 30-3	Equip #: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD- 1*12 Model #: Various - See Section 2a.
Manufacturer (Address/Phone): P.O. #	Supplier (Address/Phone):

SECTION 2 CRITICAL CHARACTERISTICS TO BE VERIFIED BY METHOD 1.

Insp	Test	Post-Test	
			1. Item 33 - Wire Screen
[X]	[]	[]	2. Supplier
[X]	[]	[]	3. Part Number
[X]	[]	[]	4. Mesh
[X]	[]	[]	5. Wire Diameter
[X]	[X]	[]	6. Material (Verification may be by either inspection or test)
			7. Item 143 - Hose
[X]	[]	[]	8. Supplier
[X]	[]	[]	9. Part Number
[X]	[]	[]	10. I. D.
[X]	[]	[]	11. Length
[X]	[X]	[]	12. Material (Verification may be by either inspection or test)
			13. Item 144 - Duct Hose Clamp
[X]	[]	[]	14. Supplier
[X]	[]	[]	15. Part Number
[X]	[]	[]	16. I.D.
[X]	[]	[]	17. Width
			18. Item 146 - Flex Hose
[X]	[]	[]	19. Manufacturer
[X]	[]	[]	20. Part Number

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. NA	CGI No. CGI-SNF-D-30-3-P4-048	Page 9 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

[X]	[]	[]	21. I. D.
[X]	[]	[]	22. Connection
[X]	[]	[]	23. Length
			24. Item 147 - Flex Hose
[X]	[]	[]	25. Manufacturer
[X]	[]	[]	26. Part Number
[X]	[]	[]	27. I. D.
[X]	[]	[]	28. Connection
[X]	[]	[]	29. Length
			30. Item 148 - Flex Hose
[X]	[]	[]	31. Manufacturer
[X]	[]	[]	32. Part Number
[X]	[]	[]	33. I. D.
[X]	[]	[]	34. Connection
[X]	[]	[]	35. Length
			36. Item 168 - Swivel Hoist Ring
[X]	[]	[]	37. Manufacturer
[X]	[]	[]	38. Part Number
[X]	[]	[]	39. Size, Ring Thickness
[X]	[]	[]	40. Size, Width of Ring Opening
[X]	[]	[]	41. Size, "C" Dimension - Height
[X]	[]	[]	42. Capacity

SECTION 3 VERIFIED BY INSPECTION

* See Attachment H of Desk Instruction for Sampling Size

Item 33 - Wire Screen

Characteristic: **Supplier**

Sample Size*: **All Items**

Acceptance Criteria: **McMaster-Carr**

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. NA	CGI No. CGI-SNF-D-30-3-P4-048	Page 10 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

Item 33 – Wire Screen
Characteristic: **Part Number**
Sample Size*: **All Items**
Acceptance Criteria: **9266T2**
Receipt Inspection Plan / Report #: _____
References (see Section 8): _____

Item 33 – Wire Screen
Characteristic: **Mesh**
Sample Size*: **All Items**
Acceptance Criteria: **Nominal 1/4 inch**
Receipt Inspection Plan / Report #: _____
References (see Section 8): _____

Item 33 – Wire Screen
Characteristic: **Wire Diameter**
Sample Size*: **All Items**
Acceptance Criteria: **Nominal 0.047 inch**
Receipt Inspection Plan / Report #: _____
References (see Section 8): _____

Item 33 – Wire Screen
Characteristic: **Material**
Sample Size*: **All Items**
Acceptance Criteria: **Stainless Steel**
Receipt Inspection Plan / Report #: _____
References (see Section 8): _____

Item 143 - Hose
Characteristic: **Supplier**
Sample Size*: **All Items**
Acceptance Criteria: **McMaster-Carr**
Receipt Inspection Plan / Report #: _____
References (see Section 8): _____

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. NA	CGI No. CGI-SNF-D-30-3-P4-048	Page 11 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

Item 143 - Hose

Characteristic: **Part Number**

Sample Size*: **All Items**

Acceptance Criteria: **55125K31**

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Item 143 - Hose

Characteristic: **I. D.**

Sample Size*: **All Items**

Acceptance Criteria: **9 inch**

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Item 143 - Hose

Characteristic: **Length**

Sample Size*: **All Items**

Acceptance Criteria: **Nominal 20 feet**

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Item 143 - Hose

Characteristic: **Material**

Sample Size*: **All Items**

Acceptance Criteria: **Neoprene Coated Fiberglass**

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Item 144 - Duct Hose Clamp

Characteristic: **Supplier**

Sample Size*: **All Items**

Acceptance Criteria: **McMaster-Carr**

Receipt Inspection Plan / Report #: _____

References (see Section 8): _____

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. NA	CGI No. CGI-SNF-D-30-3-P4-048	Page 12 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

<p>Item 144 - Duct Hose Clamp</p> <p>Characteristic: Part Number</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: 45955K75</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 144 - Duct Hose Clamp</p> <p>Characteristic: I. D.</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: Nominal 9 inch</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 144 - Duct Hose Clamp</p> <p>Characteristic: Width</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: Nominal 1/2 inch</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 146 - Flex Hose</p> <p>Characteristic: Manufacturer</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: Swagelok</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 146 - Flex Hose</p> <p>Characteristic: Part Number</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: SS-TH8-VF8-VF8-72</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. NA	CGI No. CGI-SNF-D-30-3-P4-048	Page 13 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

<p>Item 146 - Flex Hose</p> <p>Characteristic: I. D.</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: 13/32 inch</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 146 - Flex Hose</p> <p>Characteristic: Connection</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: VCO female swivel, SST, 1/2 inch, both ends</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 146 - Flex Hose</p> <p>Characteristic: Length</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: Nominal 72 inch</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 147 - Flex Hose</p> <p>Characteristic: Manufacturer</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: Either Meacon or Flexible Components</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 147 - Flex Hose</p> <p>Characteristic: Part Number</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: 24-TLCT-03-03-S6(A)-168</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. NA	CGI No. CGI-SNF-D-30-3-P4-048	Page 14 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

<p>Item 147 - Flex Hose</p> <p>Characteristic: I. D.</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: 1 1/2 inch</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 147 - Flex Hose</p> <p>Characteristic: Connection</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: 1 1/2 inch Male pipe NPT, SST, both ends</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 147 - Flex Hose</p> <p>Characteristic: Length</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: Nominal 168 inch</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 148 - Flex Hose</p> <p>Characteristic: Manufacturer</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: Either Meacon or Flexible Components</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 148 - Flex Hose</p> <p>Characteristic: Part Number</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: 16-TLCT-41-41-S6A-168</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. NA	CGI No. CGI-SNF-D-30-3-P4-048	Page 15 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

<p>Item 148 - Flex Hose</p> <p>Characteristic: I. D.</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: 1 inch</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 148 - Flex Hose</p> <p>Characteristic: Connection</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: 1 inch butt weld end, SST, both ends</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 148 - Flex Hose</p> <p>Characteristic: Length</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: Nominal 168 inch</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 168 - Swivel Hoist Ring</p> <p>Characteristic: Manufacturer</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: Crosby</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 168 - Swivel Hoist Ring</p> <p>Characteristic: Part Number</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: 1016935</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. NA	CGI No. CGI-SNF-D-30-3-P4-048	Page 16 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

<p>Item 168 - Swivel Hoist Ring</p> <p>Characteristic: Size, Ring Thickness</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: Nominal 3/4 inch Diameter</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 168 - Swivel Hoist Ring</p> <p>Characteristic: Size, Width of Ring Opening</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: Nominal 1.76 inch Diameter</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 168 - Swivel Hoist Ring</p> <p>Characteristic: Size, "C" Dimension, Height</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: Nominal 4.82 inch</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>
<p>Item 168 - Swivel Hoist Ring</p> <p>Characteristic: Capacity</p> <p>Sample Size*: All Items</p> <p>Acceptance Criteria: 5000 lbs.</p> <p>Receipt Inspection Plan / Report #: _____</p> <p>References (see Section 8): _____</p>

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. <u>NA</u>	CGI No. <u>CGI-SNF-D-30-3-P4-048</u>	Page 17 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

SECTION 4 VERIFIED BY SPECIAL TEST	
* See Attachment H of Desk Instruction for Sampling Size	
Test To Be Performed by: ☐ Purchaser ☐ Supplier/Manufacturer** ☐ Other	Number of Items to be Tested: Test/Inspection Location:
Characteristic for Test: None Acceptance Criteria: Sample Size*: Normal Sampling Size Actual Test Value: Test Plan and Report #: _____ References (see Section 8): _____	

** If Supplier/Manufacturer or Other, Refer to CGI Checklist-2 for Support Information

Commercial Grade Item Upgrade Dedication Form

SNF-4626, Rev. 1

ECN No. **NA**

CGI No. **CGI-SNF-D-30-3-P4-048**

Page 18 of 21

Title: **PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12**

SECTION 5 TEST / INSPECTION SUMMARY (Acceptance Method 1)

1. SUMMARY OF VERIFIED CRITICAL CHARACTERISTICS, THEIR VERIFICATION METHODS, AND RESULTS

ITEM DESCRIPTION:

Critical Characteristics				Verification Results							
Critical Characteristics	Acceptance Criteria/Tolerances	ID	Function	Method T/IN	Procedure or RR#	Check -list ID	Number Tested	Number Failed	Verifying Organization	Printed Name Signature	Date
Item 33 - Wire Screen											
Supplier	McMaster-Carr	X		IN							
Part Number	9266T2	X		IN							
Mesh	Nominal 1/4 inch	X		IN							
Wire Diameter	Nominal 0.047 inch	X		IN							
Material	Stainless Steel	X		IN, T							
Item 143 - Hose											
Supplier	McMaster-Carr	X		IN							
Part Number	55125K31	X		IN							
I. D.	9 inch	X		IN							
Length	Nominal 20 feet	X		IN							
Material	Neoprene Coated Fiberglass	X		IN, T							
Item 144 - Duct Hose Clamp											
Supplier	McMaster-Carr	X		IN							
Part Number	45955K75	X		IN							
I. D.	Nominal 9 inch	X		IN							
Width	Nominal 1/2 inch	X		IN							

08/27/99

Commercial Grade Item Upgrade Dedication Form

SNF-4626, Rev. 1

ECN No. **NA**

CGI No. **CGI-SNF-D-30-3-P4-048**

Page 19 of 21

Title: **PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12**

Critical Characteristics				Verification Results							
Critical Characteristics	Acceptance Criteria/Tolerances	ID	Function	Method T/IN	Procedure or RR#	Check -list ID	Number Tested	Number Failed	Verifying Organization	Printed Name Signature	Date
Item 146 - Flex Hose											
Manufacturer	Swagelok	X		IN							
Part Number	SS-TH8-VF8-VF8-72	X		IN							
I. D.	13/32 inch	X		IN							
Connection	VCO female swivel, SST, 1/2 inch, both ends	X		IN							
Length	Nominal 72 inch	X		IN							
Item 147 - Flex Hose											
Manufacturer	Either Meacon or Flexible Components	X		IN							
Part Number	24-TLCT-03-03-S6(A)-168	X		IN							
I. D.	1 1/2 inch	X		IN							
Connection	1 1/2 inch Male pipe NPT, SST, both ends	X		IN							
Length	Nominal 168 inch	X		IN							
Item 148 - Flex Hose											
Manufacturer	Either Meacon or Flexible Components	X		IN							
Part Number	16-TLCT-41-41-S6A-168	X		IN							
I. D.	1 inch	X		IN							
Connection	1 inch butt weld end, SST, both ends	X		IN							
Length	Nominal 168 inch	X		IN							

08/27/99

Commercial Grade Item Upgrade Dedication Form

SNF-4626, Rev. 1

ECN No. **NA**

CGI No. **CGI-SNF-D-30-3-P4-048**

Page 20 of 21

Title: **PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12**

Critical Characteristics				Verification Results							
Critical Characteristics	Acceptance Criteria/Tolerances	ID	Function	Method T/I/N	Procedure or RR#	Check-list ID	Number Tested	Number Failed	Verifying Organization	Printed Name Signature	Date
Item 168 - Swivel Hoist Ring											
Manufacturer	Crosby	X		IN							
Part Number	1016935	X		IN							
Size, Ring Thickness	Nominal 3/4 inch Diameter	X		IN							
Size, Width of Ring Opening	Nominal 1.76 inch Diameter	X		IN							
Size, "C" Dimension, Height	Nominal 4.82 inch	X		IN							
Capacity	5000 lbs.	X		IN							

2. DISPOSITION OF UNVERIFIED OR FAILED CRITICAL CHARACTERISTICS

Critical Characteristic	Disposition

3. SIGNATURE INDICATES ALL CRITICAL CHARACTERISTICS VERIFIED SATISFACTORY OR ACCEPTABLY DISPOSITIONED AND COMMERCIAL GRADE DEDICATION IS SATISFACTORY AND COMPLETE.

BUYER VERIFICATION			
Testing Agency Approval: _____	Date: _____	Design Authority: _____	Date: _____
Testing Agency QA Engineer: _____	Date: _____	QA Engineer: _____	Date: _____

08/27/99

Commercial Grade Item Upgrade Dedication Form		SNF-4626, Rev. 1
ECN No. NA	CGI No. CGI-SNF-D-30-3-P4-048	Page 21 of 21
Title: PARTS FOR PROCESS HOOD ASSEMBLY PV-HOOD-1*12		

SECTION 6 CONTACTS / PHONE NUMBERS	
Name	Phone
Design Authority	()
QA	()
QC	()
Cog - Engineer	()
CGI Engineer	()
Procurement Engineer	()
Other	()
SECTION 7 SUPPORTING DOCUMENTATION FOR THIS CHECKLIST	
Initial Procurement Documents	For Critical Characteristics
☐ Drawings:	
☐ Manuals (specify type & number):	
☐ Design Calculations	
☐ Installation Instructions	
☐ Operation Instructions	
☐ Calibration Instructions	
☐ Manufacturer's Recommended Spare Parts List	
☐ Other:	
Procurement Documents	
☐ Certificate of Conformance/Compliance	
☐ Seismic Qualification Certificate	
☐ Environmental Qualification Certificate	
☐ Test Report (s):	
☐ Inspection Report (s):	
☐ CMTRs for ASME Pressure Retaining Materials	
☐ Valve Seat Leakage Report	
☐ Weld Records	
☐ Material Traceability Record	
☐ Other:	

[illegible]